

PCT

RAW SEQUENCE LISTING

DATE: 04/25/2001

PATENT APPLICATION: US/09/554,996

TIME: 09:00:25

Input Set : A:\702sl.txt

Output Set: N:\CRF3\04252001\I554996.raw

ENTERED

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4 <110> APPLICANT: University of Utah Research Foundation
5      Keating, Mark T.
6      Li, Dean Y.
8 <120> TITLE OF INVENTION: ELASTIN-BASED COMPOSITIONS
11 <130> FILE REFERENCE: 22458-702
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/554,996
C--> 14 <141> CURRENT FILING DATE: 2000-05-24
16 <150> PRIOR APPLICATION NUMBER: PCT/US00/02526
17 <151> PRIOR FILING DATE: 2000-02-28
19 <150> PRIOR APPLICATION NUMBER: US 09/258,217
20 <151> PRIOR FILING DATE: 1999-02-26
22 <160> NUMBER OF SEQ ID NOS: 8
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 6
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
31 <400> SEQUENCE: 1
32 Val Gly Val Ala Pro Gly
33 1          5
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 42
37 <212> TYPE: PRT
38 <213> ORGANISM: Artificial Sequence
40 <220> FEATURE:
41 <223> OTHER INFORMATION: Synthetic
43 <400> SEQUENCE: 2
44 Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala
45 1          5          10          15
46 Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
47          20          25          30
48 Val Ala Pro Gly Val Gly Val Ala Pro Gly
49          35          40
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 712
53 <212> TYPE: PRT
54 <213> ORGANISM: Homo sapiens
56 <400> SEQUENCE: 3
57 Met Ala Gly Leu Thr Ala Ala Ala Pro Arg Pro Gly Val Leu Leu Leu
58 1          5          10          15
59 Leu Leu Ser Ile Leu His Pro Ser Arg Pro Gly Gly Val Pro Gly Ala
60          20          25          30
61 Ile Pro Gly Gly Val Pro Gly Gly Val Phe Tyr Pro Gly Ala Gly Leu
62          35          40          45
63 Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro Gly Gly Lys Pro Leu Lys
64          50          55          60
65 Pro Val Pro Gly Gly Leu Ala Gly Ala Gly Leu Gly Ala Gly Leu Gly

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66 65.          70          75          80
67 Ala Phe Pro Ala Val Thr Phe Pro Gly Ala Leu Val Pro Gly Gly Val
68          85          90          95
69 Ala Asp Ala Ala Ala Tyr Lys Ala Ala Lys Ala Gly Ala Gly Leu
70          100          105          110
71 Gly Gly Val Pro Gly Val Gly Gly Leu Gly Val Ser Ala Gly Ala Val
72          115          120          125
73 Val Pro Gln Pro Gly Ala Gly Val Lys Pro Gly Lys Val Pro Gly Val
74          130          135          140
75 Gly Leu Pro Gly Val Tyr Pro Gly Gly Val Leu Pro Gly Ala Arg Phe
76 145          150          155          160
77 Pro Gly Val Gly Val Leu Pro Gly Val Pro Thr Gly Ala Gly Val Lys
78          165          170          175
79 Pro Lys Ala Pro Gly Val Gly Gly Ala Phe Ala Gly Ile Pro Gly Val
80          180          185          190
81 Gly Pro Phe Gly Gly Pro Gln Pro Gly Val Pro Leu Gly Tyr Pro Ile
82          195          200          205
83 Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly Leu Pro Tyr Thr Thr Gly
84          210          215          220
85 Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly Val Ala Gly Ala Ala Gly
86 225          230          235          240
87 Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val Gly Pro Gln Ala Ala Ala
88          245          250          255
89 Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe Gly Ala Gly Ala Ala Gly
90          260          265          270
91 Val Leu Pro Gly Val Gly Gly Ala Gly Val Pro Gly Val Pro Gly Ala
92          275          280          285
93 Ile Pro Gly Ile Gly Gly Ile Ala Gly Val Gly Thr Pro Ala Ala Ala
94          290          295          300
95 Ala Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Ala
96 305          310          315          320
97 Gly Leu Val Pro Gly Gly Pro Gly Phe Gly Pro Gly Val Val Gly Val
98          325          330          335
99 Pro Gly Ala Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ile Pro
100          340          345          350
101 Val Val Pro Gly Ala Gly Ile Pro Gly Ala Ala Val Pro Gly Val Val
102          355          360          365
103 Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Lys Tyr Gly
104          370          375          380
105 Ala Arg Pro Gly Val Gly Val Gly Gly Ile Pro Thr Tyr Gly Val Gly
106 385          390          395          400
107 Ala Gly Gly Phe Pro Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly
108          405          410          415
109 Val Ala Gly Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val
110          420          425          430
111 Pro Gly Val Gly Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Lys
112          435          440          445
113 Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala
114          450          455          460

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115 Ala Ala Lys Ala Ala Gln Phe Ala Leu Leu Asn Leu Ala Gly Leu Val
116 465                      470                      475                      480
117 Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
118                      485                      490                      495
119 Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly
120                      500                      505                      510
121 Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly Pro Gly
122                      515                      520                      525
123 Gly Val Ala Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala
124                      530                      535                      540
125 Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly
126 545                      550                      555                      560
127 Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly
128                      565                      570                      575
129 Leu Gly Val Gly Ala Gly Val Pro Gly Phe Gly Ala Val Pro Gly Ala
130                      580                      585                      590
131 Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly Val
132                      595                      600                      605
133 Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly Val
134                      610                      615                      620
135 Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala
136 625                      630                      635                      640
137 Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly Leu
138                      645                      650                      655
139 Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly Ile
140                      660                      665                      670
141 Pro Pro Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Ala Ala Arg
142                      675                      680                      685
143 Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala Cys Leu Gly
144                      690                      695                      700
145 Lys Ala Cys Gly Arg Lys Arg Lys
146 705                      710
148 <210> SEQ ID NO: 4
149 <211> LENGTH: 6
150 <212> TYPE: PRT
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Sequence encoded by forward primer
156 <400> SEQUENCE: 4
157 Met Ala Gly Leu Thr Ala
158 1                      5
160 <210> SEQ ID NO: 5
161 <211> LENGTH: 30
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Forward primer
168 <400> SEQUENCE: 5
169 ctgctgctgc atatggcggg tctgacggcg

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171 <210> SEQ ID NO: 6
172 <211> LENGTH: 16
173 <212> TYPE: PRT
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Sequence encoded by complement to reverse primer
179 <400> SEQUENCE: 6
180 Ala Cys Gly Arg Lys Arg Lys Gln Lys Leu Ile Ser Glu Glu Asp Leu
181 1 5 10 15
183 <210> SEQ ID NO: 7
184 <211> LENGTH: 66
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Reverse primer
191 <400> SEQUENCE: 7
192 cgaacaccgg ccttctcttt tgtcttcgac tagtcgctcc tcctggacac tactttotaga 60
193 cgacga 66
195 <210> SEQ ID NO: 8
196 <211> LENGTH: 730
197 <212> TYPE: PRT
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Human elastin-c-myc fusion
203 <400> SEQUENCE: 8
204 Met Arg Gly Ser His His His His His Ala Gly Leu Thr Ala Ala
205 1 5 10 15
206 Ala Pro Arg Pro Gly Val Leu Leu Leu Leu Ser Ile Leu His Pro
207 20 25 30
208 Ser Arg Pro Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly
209 35 40 45
210 Gly Val Phe Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala
211 50 55 60
212 Leu Gly Pro Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala
213 65 70 75 80
214 Gly Ala Gly Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe
215 85 90 95
216 Pro Gly Ala Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr
217 100 105 110
218 Lys Ala Ala Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly
219 115 120 125
220 Gly Leu Gly Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly
221 130 135 140
222 Val Lys Pro Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro
223 145 150 155 160
224 Gly Gly Val Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro
225 165 170 175
226 Gly Val Pro Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly
227 180 185 190

```

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```

228 Gly Ala Phe Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln
229      195      200      205
230 Pro Gly Val Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly
231      210      215      220
232 Gly Tyr Gly Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly
233 225      230      235      240
234 Pro Gly Gly Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly
235      245      250      255
236 Thr Gly Val Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala
237      260      265      270
238 Ala Lys Phe Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly
239      275      280      285
240 Ala Gly Val Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile
241      290      295      300
242 Ala Gly Val Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala
243 305      310      315      320
244 Lys Ala Ala Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro
245      325      330      335
246 Gly Phe Gly Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly
247      340      345      350
248 Val Gly Val Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile
249      355      360      365
250 Pro Gly Ala Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys
251      370      375      380
252 Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val
253 385      390      395      400
254 Gly Gly Ile Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe
255      405      410      415
256 Gly Val Gly Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Gly Val
257      420      425      430
258 Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro
259      435      440      445
260 Glu Ala Gln Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly
261      450      455      460
262 Thr Pro Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe
263 465      470      475      480
264 Ala Leu Leu Asn Leu Ala Gly Leu Val Pro Gly Val Gly Val Ala Pro
265      485      490      495
266 Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu
267      500      505      510
268 Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val
269      515      520      525
270 Gly Val Ala Pro Gly Ile Gly Pro Gly Gly Val Ala Ala Ala Lys
271      530      535      540
272 Ser Ala Ala Lys Val Ala Ala Lys Ala Gln Leu Arg Ala Ala Ala Gly
273 545      550      555      560
274 Leu Gly Ala Gly Ile Pro Gly Leu Gly Val Gly Val Gly Val Pro Gly
275      565      570      575
276 Leu Gly Val Gly Ala Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val

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VERIFICATION SUMMARY

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Input Set : A:\702sl.txt

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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date